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PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:

Attorney Docket No. 2950.54US01

BI et al.

Application No.: 10/027,906

Examiner: Unknown

Filed: December 21, 2002

Group Art Unit: 3662

For: THREE DIMENSIONAL ENGINEERING OF PLANAR OPTICAL STRUCTURES

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Pursuant to 37 C.F.R. § 1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached Form PTO-1449. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This information is being filed before the mailing date of a first Office Action on the merits. No certification or fee is required.

Respectfully submitted,

Peter S. Dardi

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Please grant any extension of time necessary for entry; charge any fee due to Deposit Account No. 16-0631.

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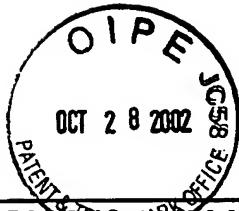
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U.S. PATENT DOCUMENTS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>EXAMINER INITIAL</th> <th>DOCUMENT NO.</th> <th>DATE</th> <th>NAME</th> <th>CLASS</th> <th>SUBCLASS</th> <th>FILING DATE IF APPROPRIATE</th> </tr> </thead> <tbody> <tr><td></td><td>3,806,570</td><td>04/1974</td><td>Flamenbaum et al.</td><td></td><td></td><td></td></tr> <tr><td></td><td>3,883,336</td><td>05/1975</td><td>Randall</td><td></td><td></td><td></td></tr> <tr><td></td><td>3,923,484</td><td>12/1975</td><td>Randall</td><td></td><td></td><td></td></tr> <tr><td></td><td>3,932,162</td><td>01/1976</td><td>Blankenship</td><td></td><td></td><td></td></tr> <tr><td></td><td>3,934,061</td><td>01/1976</td><td>Keck et al.</td><td></td><td></td><td></td></tr> <tr><td></td><td>4,038,370</td><td>07/1977</td><td>Tokimoto et al.</td><td></td><td></td><td></td></tr> <tr><td></td><td>4,113,844</td><td>09/1978</td><td>Tokimoto et al.</td><td></td><td></td><td></td></tr> <tr><td></td><td>4,619,680</td><td>10/1986</td><td>Nourshargh et al.</td><td></td><td></td><td></td></tr> <tr><td></td><td>4,735,677</td><td>04/1988</td><td>Kawachi et al.</td><td></td><td></td><td></td></tr> <tr><td></td><td>4,791,648</td><td>12/1988</td><td>Vojak et al.</td><td></td><td></td><td></td></tr> <tr><td></td><td>4,814,289</td><td>03/1989</td><td>Baeuerle</td><td></td><td></td><td></td></tr> <tr><td></td><td>4,868,005</td><td>09/1989</td><td>Ehrlich et al.</td><td></td><td></td><td></td></tr> <tr><td></td><td>4,881,791</td><td>11/1989</td><td>Mallinson et al.</td><td></td><td></td><td></td></tr> <tr><td></td><td>4,933,262</td><td>06/1990</td><td>Begin</td><td></td><td></td><td></td></tr> <tr><td></td><td>5,060,595</td><td>10/1991</td><td>Ziv et al.</td><td></td><td></td><td></td></tr> <tr><td></td><td>5,108,952</td><td>04/1992</td><td>Matsuhashi</td><td></td><td></td><td></td></tr> <tr><td></td><td>5,119,460</td><td>06/1992</td><td>Bruce et al.</td><td></td><td></td><td></td></tr> <tr><td></td><td>5,141,549</td><td>08/1992</td><td>Tumminelli</td><td></td><td></td><td></td></tr> <tr><td></td><td>5,195,161</td><td>03/1993</td><td>Adar et al.</td><td></td><td></td><td></td></tr> <tr><td></td><td>5,200,029</td><td>04/1993</td><td>Bruce et al.</td><td></td><td></td><td></td></tr> <tr><td></td><td>5,276,012</td><td>01/1994</td><td>Ushida et al.</td><td></td><td></td><td></td></tr> <tr><td></td><td>5,296,072</td><td>03/1994</td><td>Dannoux et al.</td><td></td><td></td><td></td></tr> <tr><td></td><td>5,317,576</td><td>05/1994</td><td>Leonberger et al.</td><td></td><td></td><td></td></tr> <tr><td></td><td>5,318,614</td><td>06/1994</td><td>Begin</td><td></td><td></td><td></td></tr> <tr><td></td><td>5,385,594</td><td>01/1995</td><td>Kanamori et al.</td><td></td><td></td><td></td></tr> <tr><td></td><td>5,396,507</td><td>03/1995</td><td>Kaminow et al.</td><td></td><td></td><td></td></tr> <tr><td></td><td>5,447,585</td><td>09/1995</td><td>Dannoux et al</td><td></td><td></td><td></td></tr> <tr><td></td><td>5,448,586</td><td>09/1995</td><td>Shmulovich et al.</td><td></td><td></td><td></td></tr> <tr><td></td><td>5,551,966</td><td>09/1996</td><td>Hirose et al.</td><td></td><td></td><td></td></tr> <tr><td></td><td>5,556,442</td><td>09/1996</td><td>Kanamori et al.</td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td colspan="3">EXAMINER SIGNATURE</td> <td colspan="3">DATE CONSIDERED</td> </tr> <tr> <td colspan="6">EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. 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INFORMATION DISCLOSURE CITATION IN AN APPLICATION			Docket No.: 2950.54US01		Application No.: 10/027,906	
			APPLICANT: BI et al.		FILING DATE: December 21, 2001	
FOREIGN PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	WO 99/23189	05/1999	PCT			
	WO 99/31532	06/1999	PCT			
	WO 99/61244	12/1999	PCT			
	WO 00/24093	04/2000	PCT			Abstract only
	WO 01/07155	02/2001	PCT			
	WO 01/22542	03/2001	PCT			
	WO 01/77732	10/2001	PCT			
	WO 02/32588	04/2002	PCT			
	WO 02/44765	06/2002	PCT			
RECEIVED						
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OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)						
Rabii et al., "Recent advances in the fabrication of hollow glass waveguides", SPIE Vol. 3262, pp. 103-107, 1998.						
Liang et al., "Laser synthesize silicon-based and ferro-based nano powders", SPIE Vol. 3862, pp. 17-21, 1999.						
Barbarossa et al., "Effect of temperature gradient on sintering kinetics of doped silica waveguides by flame hydrolysis deposition", SPIE Vol. 1794 Integrated Optical Circuits II, pp. 191-197, 1992.						
Lebedev et al., "Laser distillation-deposition synthesis of silica glasses with variable concentrations of oxygen deficient centers", SPIE Vol. 2498, pp. 65-71, 1995.						
Barbarossa et al., "High-silica cascaded three-waveguide couplers for wideband filtering by Flame Hydrolysis on Si", SPIE Vol. 1583 Integrated Optical Circuits, pp. 122-128, 1991.						
Barbarossa et al., "Optical damage threshold of P ₂ O ₅ and GeO ₂ -P ₂ O ₅ -doped silica waveguides", SPIE Vol. 1794 Integrated Optical Circuits II, pp. 185-190, 1992.						
Barbarossa et al., "High-silica low-loss three waveguide couplers on Si by Flame Hydrolysis Deposition", SPIE Vol. 1513 Glasses for Optoelectronics II, pp. 37-43, 1991.						
Maxwell, "Photosensitivity & rare-earth doping in flame hydrolysis deposited planar silica waveguides", SPIE Vol. 2695, pp. 16-29, 1996.						
Sun et al., "Building passive components with silica waveguides", SPIE Vol. 3795, pp. 313-319, 1999.						
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